

## RS-232↔RS-422/485 (Data Only) Converter

**Send your data up to 4000 feet  
over the RS-422/485 interface  
at speeds up to 64 kbps.**



## FEATURES

- » Operates full-duplex over four wires.
- » Transparent to data format and data rates up to 64 kbps.
- » Perfect for point-to-point and multipoint applications.
- » Daisychain up to 64 converters in multipoint applications.
- » Standalone version available for 115- or 230-VAC power.
- » Rackmount card also available.

## OVERVIEW

The [RS-232↔RS-422/485 \(Data Only\) Converter](#) operates in full-duplex mode over 4-wire lines, and it's transparent to data format and data rates up to 64 kbps.

A 4-position terminal block on the RS-422/485 port makes installation a breeze. And this converter is flexible, too—it can work in either point-to-point or multipoint applications.

You can set the RS-232 interface as either Data Terminal Equipment (DTE) or Data Communications Equipment (DCE) for a wide range of applications.

The [RS-232↔RS-422/485 \(Data Only\) Converter](#) is available either as a standalone unit or rack card. Choose your standalone unit for 115- or 230-VAC power.

You can transmit data up to 4000 feet (1219.2 m) over the RS-422/485 interface. And in a multipoint application, up to 64 converters can be daisy chained.

## TECH SPECS

**Compliance** — CE; FCC Part 15 Subpart B Class A, IC Class/classe A  
**Data Format** — Transparent to data format

**Data Rate** — Transparent to data rates up to 64 kbps  
**Distance (Maximum)** — RS-232: 50 ft. (15.2 m) to attached device; RS-422/485: 4000 ft. (1219.2 m) to farthest attached device

**Flow Control** — Transparent to software flow control; holds RS-232 hardware flow control outputs high, but can be set so that RS-232 hardware flow control inputs (DTR or RTS) enable the RS-422/485 driver

**Humidity Tolerance** — Up to 95%, noncondensing

**Leads/Signals Supported** — RS-232: Pins 1 through 8 and 20 (PGND, TD, RD, RTS, CTS, DSR, SGND, DCD, DTR); RS-422/485: TXA, TXB, RXA, RXB

**MTBF** — 200,000 hours

**Operating Temperature Tolerance** — 32 to 122°F (0 to 50°C)

**Operation** — RS-422/485: 4-wire full-duplex, point-to-point or multipoint

**Protocol** — Async

**User Controls** — All board-mounted: (1) 8-position DIP switch jumper for DTE vs. DCE;

- (1) 1-position DIP switch for RS-422/485 termination;
- (1) jumper for RS-422/485 always on vs. controlled;
- (1) jumper for RS-422/485 controlled by DTR vs. RTS;
- (1) jumper/solder terminal for interconnection of frame ground and RS-232 signal ground

**Interface** — TIA/EIA RS-232, DTE or DCE (user-selectable); TIA/EIA RS-422/485

**Connectors** — RS-232: (1) DB25 F;

RS-422/485: (1) 4-position terminal block

**Indicators** — (3) front-mounted LEDs: TX, RX, Power

**Power** — IC107A-R3 120 VAC, 60 Hz;

IC107AE-R3: 230 VAC, 50 Hz;

IC107C-R3: 17 VDC CT at 700 mA from the RM005 rack

**Size** — IC107A-R3, IC107AE-R3: 1.75" H (1U) x 5.5" W x 9" D (4.4 x 14 x 22.9 cm);

IC107C-R3: 4.7" H x 7.4" D (11.9 x 18.8 cm)

**Weight** — IC107A-R3, IC107AE-R3: Enclosure: 1 lb. (0.5 kg);

Power supply: 0.5 lb. (0.2 kg);

IC107C-R3: 0.5 lb. (0.2 kg)

## What's included

- ◆ Standalone converter or rackmount card version
- ◆ 115- or 230-VAC wallmount power supply (standalone version only)
- ◆ Users' manual

## Item

RS-232↔RS-422/485 (Data Only) Converter

Standalone

115-VAC

230-VAC

Rackmount Card (115-VAC)

## Code

**IC107A-R3**

**IC107AE-R3**

**IC107C-R3**

[To rackmount your cards, order...](#)

16-Card Rack

**RM005**

[You may also want to order cable...](#)

RS-232 Cable, 25-Conductor, 10-ft. (3-m),

Male/Male

AT® Modem Cable, 9-Conductor, 6-ft. (1.8-m),

DB9 Female/DB25 Male

**ECM25C-0010-MM**

**EVMBMC-0006**